

Abstract

The invention relates to a servo valve for actuating a pressure booster (2) which is assigned to a fuel injector (9), the pressure booster (2) having a work chamber (4) which is separated by a booster piston (3, 50) from a differential pressure chamber (5), and the pressure change in the differential pressure chamber (5) of the pressure booster (2) is effected via the servo valve (23), to which a switching valve (24) activating it is assigned. In a valve housing (47; 61, 62, 63) of the servo valve (23), its control chamber (29) can both be made to communicate with a high-pressure source (1) and pressure-relieved into a low-pressure-side return (25), and for generating a fast closing motion at the valve piston (32; 33, 60), a pressure shoulder (44, 28) acting in the closing direction of the valve piston (32, 33, 60) is embodied between the control chamber (29) and the hydraulic chamber (42), and control edges (36, 40) without a common opening phase are embodied on the valve piston (32, 33, 60).

(Fig. 3)